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# NOTICE OF ALLOWANCE AND FEE(S) DUE

85197 7590 02/17/2010

Wong Cabello Lutsch Rutherford & Brucculeri LLP 20333 Tomball Parkway, 6th Floor Houston, TX 77070 EXAMINER

WON, MICHAEL YOUNG

ART UNIT PAPER NUMBER

2455

DATE MAILED: 02/17/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/767,405	01/29/2004	Santosh Shanbhag	112-0136US	2871	

TITLE OF INVENTION: ISOLATION SWITCH FOR FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/17/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONI	FIRMATION NO.
10/767,405 TITLE OF INVENTION	01/29/2004 i: ISOLATION SWITCE	I FOR FIBRE CHANNE	Santosh Shanbhag L FABRICS IN STOR		AREA NETWOR	:KS	112-0136US		2871
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nonprovisional	NO	\$1510	\$300		\$0		\$1810		05/17/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
WON, MICH	AEL YOUNG	2455	709-223000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	condence address (or Cha B/122) attached. lication (or "Fee Address 32 or more recent) attack LND RESIDENCE DATA	inge of Correspondence		ip to native single or a attor Il be p	3 registered paten ely, firm (having as a gent) and the nam neys or agents. If orinted.	memb es of u no nam	er a 2 p to le is 3	ocumen	it has been filed for
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	s SMALL ENTITY state	as. See 37 CFR 1.27.					ITTY status. See 37 Cl		
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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85197 75	90 02/17/2010	EXAMINER					
Wong Cabello Li	utsch Rutherford & E	WON, MICHAEL YOUNG					
20333 Tomball Par		ART UNIT	PAPER NUMBER				
Houston, TX 7707	0	2455					

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 933 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 933 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/767,405 SHANBHAG ET AL. Notice of Allowability Examiner Art Unit MICHAEL Y WON 2455 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the Terminal Disclaimer filed December 30, 2009 and Interview conducted on January 4, 2010. 2. The allowed claim(s) is/are 1-117. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: a) $\square$ All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material

9. Other\_\_\_\_.
/Michael Won/
Primary Examiner
February 10, 2010

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#### EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- Authorization for this examiner's amendment was given in a telephone interview with Keith Lutsch (Reg. No. 31,851) on January 4, 2010.
- 3. The application has been amended as follows:
- (Currently Amended) A data switching device for connecting to a series
  of nodes and to a first fabric, the <u>data switching</u> device comprising:

a plurality of fabric ports for coupling to the series of nodes;

at least one node port for connecting to the first fabric; and

a switch coupled to said plurality of fabric ports and said at least one node port for interconnecting said ports (see col.10, claim 1).

(Currently Amended) A Fibre Channel switch for connecting to a series
of nodes and to a first fabric, the <u>Fibre Channel</u> switch comprising:

a plurality of F\_\_ports for coupling to the series of nodes;

at least one N\_port for connecting to the first fabric; and

a switch circuit coupled to said plurality of F\_\_ports and said at least one N\_port for interconnecting said ports (see col.10-col.11, claim 5).

# (Currently Amended) A network comprising:

a series of nodes;

a first fabric; and

a data switching device connected to said series of nodes and to said first fabric, said <u>data switching</u> device including:

a plurality of fabric ports coupled to said series of nodes;

at least one node port connected to said first fabric; and

a switch coupled to said plurality of fabric ports and said at least one node port for interconnecting said ports (see col.11, claim 9).

# 28. (Currently Amended) A network comprising:

a series of nodes:

a first fabric; and

a Fibre Channel switch connected to said series of nodes and to said first fabric, said <u>Fibre Channel</u> switch including:

a plurality of F ports coupled to said series of nodes;

at least one N port connected to said first fabric; and

a switch circuit coupled to said plurality of F ports and said at least one

N port for interconnecting said ports (see col.11, claim 16).

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39. (Currently Amended) A network comprising:

a series of nodes, each having two ports;

a first fabric; and

two data switching devices, each connected to one port of each of said series of nodes and to said first fabric, each said data switching device including:

a plurality of fabric ports coupled to said one port of said series of nodes;

at least one node port connected to said first fabric; and

a switch coupled to said plurality of fabric ports and said at least one node

port for interconnecting said ports (see col.12, claim 23).

50. (Currently Amended) A network comprising:

a series of nodes, each having two ports;

a first fabric: and

two Fibre Channel switches connected to one port of each of said series of nodes and to said first fabric, each said Fibre Channel switch including:

a plurality of F ports coupled to said one port of said series of nodes:

at least one N port connected to said first fabric; and

a switch circuit coupled to said plurality of F, ports and said at least one

N port for interconnecting said ports (see col.12, claim 30).

61. (Currently Amended) A network comprising:

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a series of nodes, each having two ports;

first and second fabrics; and

two data switching devices, each connected to one port of each of said series of nodes and to said first and second fabrics. each said data switching device including:

a plurality of fabric ports coupled to said one port of said series of nodes;

two node ports, one connected to each of said first and second fabrics;

and

a switch coupled to said plurality of fabric ports and said two node ports for interconnecting said ports (see col.13. claim 37).

# 71. (Currently Amended) A network comprising:

a series of nodes, each having two ports;

first and second fabrics; and

two Fibre Channel switches connected to one port of each of said series of nodes and to said first and second fabrics, each said <a href="Fibre Channel">Fibre Channel</a> switch including: a plurality of F\_ports coupled to said one port of said series of nodes; two N\_ports, one connected to each of said first and second fabrics; and a switch circuit coupled to said plurality of F\_ports and said two N\_ports

# 81. (Currently Amended) A network comprising:

for interconnecting said ports (see col.13, claim 44).

a series of nodes, each having two ports;

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first and second fabrics; and

two data switching devices, each connected to one port of each of said series of nodes and to one of said first and second fabrics, each said <u>data switching</u> device including:

a plurality of fabric ports coupled to said one port of said series of nodes; two node ports connected to one of said first and second fabrics; and a switch coupled to said plurality of fabric ports and said two node ports for interconnecting said ports (see col.14, claim 51).

# (Currently Amended) A network comprising:

a series of nodes, each having two ports;

first and second fabrics; and

two Fibre Channel switches connected to one port of each of said series of nodes and to one of said first and second fabrics, each said <u>Fibre Channel</u> switch including:

a plurality of F\_\_ports coupled to said one port of said series of nodes; two N\_ports connected to one of said first and second fabrics; and a switch circuit coupled to said plurality of F\_ports and said two N\_ports for interconnecting said ports (see col.14-col.15, claim 58).

101. (Currently Amended) A method for routing between a series of nodes and a first fabric using a data switching device, the method comprising:

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providing a plurality of fabric ports on the <u>data switching</u> device coupled to the series of nodes:

providing at least one node port on the <u>data switching</u> device connected to the first fabric; and

interconnecting said plurality of fabric ports and said at least one node port with the <u>data switching</u> device (see col.15-col.16, claim 65).

### Allowable Subject Matter

- 4. Claims 1-117 are allowable over prior art of record in light of the Terminal Disclaimer filed December 30, 2009 to overcome and obviate an obvious-type double patenting, and in light of the Interview conducted on January 4, 2010.
- 5. The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose, teach, or suggest neither singly nor in combination the claimed limitation of "said data switching device comprising: a plurality of fabric ports for coupling to the series of nodes; at least one node port for connecting to the first fabric; and a switch coupled to said plurality of fabric ports and said at least one node port for interconnecting said ports" as recited in independent claim1 and similarly recited in independent claims 9, 17, 28, 39, 50, 61, 71, 81, 91 and 101.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Y. Won whose telephone number is 571-272-3993. The examiner can normally be reached on M-Th: 7AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on 571-272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Won/ Primary Examiner AU2455 February 10, 2010